



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/722,176  
Source: 1Fwp  
Date Processed by STIC: 12/17/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

*Effective 12/13/03:* TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/722,176

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
  
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.
  
- 4      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
  
- 5      Variable Length     Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
  
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
                                   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                   (i)     SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                                   (xi)  SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                   This sequence is intentionally skipped  
  
                                   Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
  
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence.  
                                   <210> sequence id number  
                                   <400> sequence id number  
                                   000
  
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                                   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                                   In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
  
- 10     Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
  
- 11     Use of <220>     Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses.  
                                   Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                                   (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12     PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13     Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

## RAW SEQUENCE LISTING

DATE: 12/17/2003

PATENT APPLICATION: US/10/722,176

TIME: 10:30:58

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\12112003\J722176.raw

4 <110> APPLICANT: Rana, Tariq  
 6 <120> TITLE OF INVENTION: DELIVERY OF siRNAs  
 9 <130> FILE REFERENCE: UMY-059  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/722,176  
 C--> 11 <141> CURRENT FILING DATE: 2003-11-24  
 11 <150> PRIOR APPLICATION NUMBER: 60/430520  
 12 <151> PRIOR FILING DATE: 2002-11-26  
 14 <160> NUMBER OF SEQ ID NOS: 16  
 16 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 13  
 20 <212> TYPE: PRT  
 21 <213> ORGANISM: Artificial Sequence  
 23 <220> FEATURE:  
 24 <223> OTHER INFORMATION: peptide  
 26 <400> SEQUENCE: 1  
 27 Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Cys  
 28 1 5 10  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 19  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: Artificial Sequence  
 36 <220> FEATURE:  
 37 <223> OTHER INFORMATION: peptide  
 39 <400> SEQUENCE: 2  
 40 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys  
 41 1 5 10 15  
 42 Gly Gly Cys  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 34  
 48 <212> TYPE: PRT  
 49 <213> ORGANISM: Artificial Sequence  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: peptide  
 54 <400> SEQUENCE: 3  
 55 Asp Ala Ala Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr  
 56 1 5 10 15  
 57 Glu Arg Pro Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro Arg Arg Pro  
 58 20 25 30  
 59 Val Glu  
 63 <210> SEQ ID NO: 4  
 64 <211> LENGTH: 21  
 65 <212> TYPE: PRT

pp 1-4  
 Does Not Comply  
 Converted Diskette Needed

insufficient explanation - give source of  
 genetic material  
 (see item 11  
 on Euro Summary  
 sheet)

## RAW SEQUENCE LISTING

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DATE: 12/17/2003

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Input Set : A:\Seqlist.txt

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66 <213> ORGANISM: Artificial Sequence  
68 <220> FEATURE:  
69 <223> OTHER INFORMATION: peptide  
71 <400> SEQUENCE: 4  
72 Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser Gln Pro Lys  
73 1 5 10 15  
74 Lys Lys Arg Lys Val  
75 20  
78 <210> SEQ ID NO: 5  
79 <211> LENGTH: 27  
80 <212> TYPE: PRT  
81 <213> ORGANISM: Artificial Sequence  
83 <220> FEATURE:  
84 <223> OTHER INFORMATION: peptide  
86 <400> SEQUENCE: 5  
87 Gly Ala Leu Phe Leu Gly Trp Leu Gly Ala Ala Gly Ser Thr Met Gly  
88 1 5 10 15  
89 Ala Trp Ser Gln Pro Lys Lys Lys Arg Lys Val  
90 20 25  
93 <210> SEQ ID NO: 6  
94 <211> LENGTH: 16  
95 <212> TYPE: PRT  
96 <213> ORGANISM: Artificial Sequence  
98 <220> FEATURE:  
99 <223> OTHER INFORMATION: peptide  
101 <400> SEQUENCE: 6  
102 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro  
103 1 5 10 15  
106 <210> SEQ ID NO: 7  
107 <211> LENGTH: 16  
108 <212> TYPE: PRT  
109 <213> ORGANISM: Artificial Sequence  
111 <220> FEATURE:  
112 <223> OTHER INFORMATION: peptide  
114 <400> SEQUENCE: 7  
115 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys  
116 1 5 10 15  
119 <210> SEQ ID NO: 8  
120 <211> LENGTH: 27  
121 <212> TYPE: PRT  
122 <213> ORGANISM: Artificial Sequence  
124 <220> FEATURE:  
125 <223> OTHER INFORMATION: peptide  
127 <400> SEQUENCE: 8  
128 Gly Ala Leu Phe Leu Gly Trp Leu Gly Ala Ala Gly Ser Thr Met Gly  
129 1 5 10 15  
130 Ala Trp Ser Gln Pro Lys Lys Lys Arg Lys Val  
131 20 25  
134 <210> SEQ ID NO: 9

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/722,176

DATE: 12/17/2003

TIME: 10:30:58

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\12112003\J722176.raw

```

135 <211> LENGTH: 16
136 <212> TYPE: PRT
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: peptide
142 <400> SEQUENCE: 9
143 Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala Pro
144 1 5 10 15
147 <210> SEQ ID NO: 10
148 <211> LENGTH: 26
149 <212> TYPE: PRT
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: peptide
155 <400> SEQUENCE: 10
156 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Lys Ile Asn Leu Lys
157 1 5 10 15
158 Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
159 20 25
162 <210> SEQ ID NO: 11
163 <211> LENGTH: 18
164 <212> TYPE: PRT
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: peptide
170 <400> SEQUENCE: 11
171 Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Leu Lys
172 1 5 10 15
173 Leu Ala
177 <210> SEQ ID NO: 12
178 <211> LENGTH: 12
179 <212> TYPE: PRT
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: peptide
185 <400> SEQUENCE: 12
186 Cys Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
187 1 5 10
190 <210> SEQ ID NO: 13
191 <211> LENGTH: 21
192 <212> TYPE: RNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: siRNA
W--> 198 <221> NAME/KEY: misc_feature
199 <222> LOCATION: 20, 21
200 <223> OTHER INFORMATION: n = deoxythymidine
W--> 202 <400> 13
W--> 203 gcagcagcagc uucuucaagn n

```

Thymine (or modification) cannot  
be shown in an RNA sequence,  
even if "n"  
is used.

For a combined DNA/RNA  
sequence, use <212> DNA  
and replace in <220>-<223>  
section 12/17/03

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/722,176

DATE: 12/17/2003

TIME: 10:30:58

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\12112003\J722176.raw

205 <210> SEQ ID NO: 14  
 206 <211> LENGTH: 21  
 207 <212> TYPE: RNA  
 208 <213> ORGANISM: Artificial Sequence  
 210 <220> FEATURE:  
 211 <223> OTHER INFORMATION: siRNA  
 W--> 213 <221> NAME/KEY: misc feature *same error*  
 214 <222> LOCATION: 20, 21  
 215 <223> OTHER INFORMATION: n = deoxythymidine  
 W--> 217 <400> 14  
 W--> 218 cuugaagaag ucgugcugcn n 21  
 220 <210> SEQ ID NO: 15  
 221 <211> LENGTH: 21  
 222 <212> TYPE: RNA  
 223 <213> ORGANISM: Artificial Sequence  
 225 <220> FEATURE:  
 226 <223> OTHER INFORMATION: siRNA  
 W--> 228 <221> NAME/KEY: misc feature *same*  
 229 <222> LOCATION: 20, 21  
 230 <223> OTHER INFORMATION: n = deoxythymidine  
 W--> 232 <400> 15  
 W--> 233 ccaaagcuuc ccccuauaan n 21  
 235 <210> SEQ ID NO: 16  
 236 <211> LENGTH: 12  
 237 <212> TYPE: PRT  
 238 <213> ORGANISM: Artificial Sequence  
 240 <220> FEATURE:  
 241 <223> OTHER INFORMATION: peptide *error*  
 243 <400> SEQUENCE: 16  
 244 Cys Tyr Gln Arg Lys Lys Arg Arg Gln Arg Arg Arg  
 245 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/722,176

DATE: 12/17/2003  
TIME: 10:30:59

Input Set : A:\Seqlist.txt  
Output Set: N:\CRF4\12112003\J722176.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 20,21  
Seq#:14; N Pos. 20,21  
Seq#:15; N Pos. 20,21

**VERIFICATION SUMMARY**PATENT APPLICATION: **US/10/722,176**

DATE: 12/17/2003

TIME: 10:30:59

Input Set : **A:\Seqlist.txt**Output Set: **N:\CRF4\12112003\J722176.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:198 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:202 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:213 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:217 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:228 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:232 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15  
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0